Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work: **Construction of General Public Toilet in Mallasandra Colony School in ward no 13 Mallasandra Shettyhalli Sub Division**

Modified Estimation

Est .Cost Rs.50.00 Lakhs

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	**Earth work excavation for foundation of building** water sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of colds complete as per specifications. **Page No. 5 / Item No. 2.4 of PWD SR 2016-17**								
	site cleaning		1	15	14.2	0.45	95.85		
	Column footing		8	2.1	1.8	2	60.48		
	L/wall		2	11.6	0.9	1.2	25.056		
	L/wall		1	6.1	0.9	1.2	6.588		
	S/ wall		2	8.25	0.9	1.2	17.82		
			1	4.25	0.9	1.2	4.59		
	L/ wall toilet		1	4.4	0.6	0.75	1.98		
	L/ wall toilet		1	4.75	0.6	0.75	2.1375		
	S/ wall toi.et		6	0.75	0.6	0.75	2.025		
			1	2.9	0.6	0.75	1.305		
	Sump		1	3	3.2	2.5	24		
	Deduct Column		-8	0.9	0.9	1.2	-7.776		
		Cum	1	15.85	11.60	4.25	781.41		
	Column Foundation		8	2.00	1.60	2.10	53.76		
	Wall foundation		6	3.25	1.10	1.05	22.52		
			4	3.55	1.10	1.05	16.40		
			2	1.50	1.10	1.05	3.47		
					Net Qty		**1111.61**		
	Rate Analysis For Above 125% Quantity								
	Basic Rate		449.9						
	Area Weightage@8%		35.92						
	Lead of 15Km(15*1.28*2)+57		95.40						
	11.50% Above on SR		66.84						
	Total		**648.06**						
					Upto 125% Quantity		**303.78**	**350.00**	**106323.00**
					Above 125% Quantity		**807.83**	**648.06**	**523522.31**
2	KSRB 4-1.2 : Providing and laying in position plain **cement concrete of mix 1:3:6 with OPC** cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS **(P.No. 12/I.No. 4.2 of CSR 2016-17)**								
	Column footing		8	2.1	1.8	0.15	4.54		
	L/wall		2	11.6	0.9	0.15	3.13		
	L/wall		1	6.1	0.9	0.15	0.82		
	S/ wall		2	8.25	0.9	0.15	2.23		
			1	4.25	0.9	0.15	0.57		
	L/ wall toilet		1	4.4	0.6	0.15	0.40		
	L/ wall toilet		1	4.75	0.6	0.15	0.43		
	S/ wall toi.et		6	0.75	0.6	0.15	0.41		
			1	2.9	0.6	0.15	0.26		
	Sump		1	3	3.2	0.15	1.44		
	Deduct Column		-8	0.6	0.2	0.15	-0.14		
	pcc for Floor Store		1	5.7	3.3	0.15	2.82		
	Gents toilet		1	3.3	5.35	0.15	2.65		
	Ladies toilet		1	3.3	5.7	0.15	2.82		
	Column Foundation	Cum	8	2.00	1.60	0.15	3.84		
	wall		6	4.30	1.00	0.15	3.87		
	wall		4	4.90	1.00	0.15	2.94		
			2	2.30	1.00	0.15	0.69		
	Floor		3	7.75	4.30	0.15	15.00		
	Floor		1	5.75	2.30	0.15	1.98		
					Net Qty		**50.69**		
	Rate Analysis For Above 125% Quantity								
	Basic Rate		5194.00						
	Area Weightage@8%		415.52						
	11.50% Above on SR		645.09						
	Total		**6254.61**						
					Upto 125% Quantity		**49.19**	**6200.00**	**304978.00**
					Above 125% Quantity		**1.50**	**6254.61**	**9381.92**

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3	Providing and constructing **granite /trap/ baslat size stone masonry in foundation** with cement mortar 1:6, stones hammerd dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications **Page No. 23 / Item No. 5.6, PWD SR 2016-17**								
	Foundation L/wall		5	4.9	0.75	0.6	11.03		
	L/wall		5	4.9	0.6	0.45	6.62		
	S/ wall		5	3.85	0.75	0.6	8.66		
	S/ wall		5	3.85	0.6	0.45	5.20		
	Toilet L/wall		2	5.25	0.6	0.45	2.84		
			2	5.25	0.45	0.45	2.13		
	s/wall		6	0.75	0.6	0.45	1.22		
			6	0.75	0.45	0.45	0.91		
	Long Wall	cum	6	4.30	0.75	0.45	8.71		
			4	4.90	0.75	0.45	6.62		
			3	2.30	0.75	0.45	2.33		
			6	4.30	0.60	0.45	6.97		
			4	4.90	0.60	0.45	5.29		
			3	2.30	0.60	0.45	1.86		
					Net Qty		70.36		
	Rate Analysis For Above 125% Quantity								
	Basic Rate		4596.00						
	Area Weightage@8%		367.68						
	11.50% Above on SR		579.82						
	Total		**5543.50**						
					Upto 125% Quantity		60.58	5500.00	333190.00
					Above 125% Quantity		9.78	5543.50	54215.43
4	Providing and constructing **granite /trap/ baslat size stone masonry in basement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications **Page No. 23 / Item No. 5.9, PWD SR 2016-17**								
	Foundation L/wall		5	4.9	0.45	0.45	4.96		
	L/wall		5	4.9	0.45	0.45	4.96		
	S/ wall		5	3.85	0.45	0.45	3.90		
	S/ wall		5	3.85	0.45	0.45	3.90		
	Toilet L/wall		2	5.25	0.3	0.45	1.42		
			2	5.25	0.3	0.45	1.42		
	s/wall		6	0.75	0.3	0.45	0.61		
			6	0.75	0.3	0.45	0.61		
		Cum					21.77		
					Net Qty		21.77		
	Rate Analysis For Above 125% Quantity								
	Basic Rate		5483.00						
	Area Weightage@8%		438.64						
	11.50% Above on SR		680.98						
	Total		**6602.62**						
					Upto 125% Quantity		19.03	5600.00	106568.00
					Above 125% Quantity		2.74	6602.62	18082.93
5	**Providing ruled pointing to coursed stone masonry** with cement mortar 1:3 20mm deep, after raking joints to depth of 20mm necely lining, including cost of materials, labour, curing complete as per specifications **Page No. 113 / Item No. 15.3, PWD SR 2016-17**								
		Sq.m	6	4.9		0.45	13.23		
			8	3.85		0.45	13.86		
					Net Qty		27.09	120.00	3250.80
6	**Filling avaialble excavated earth** (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms in depth compacting each deposited layers by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specification Page No. 6 / Item No. 2.10 / PWD SR 2016-17								
							187.24		
		Cum	3	7.75	4.30	0.45	44.99		
			1	5.75	2.30	0.45	5.95		
							238.18		
					Net Qty		238.18	150.00	35727.00

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	KSRB 4.2.7: Providing and laying in position reinforced cement concrete cum of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super piasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspiliars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1,4.6 Specification No. KBS 4.1, 4.6. Page No. 12, Item No. 4.12, PWD SR 2016-17								
	Column footing		8	2	1.7	0.75	20.4		
	column pedastal up to G L		8	0.9	0.5	1.5	5.4		
	Column up to plinth		8	0.6	0.2	0.45	0.432		
	Sump bottom concret		1	3	3.2	0.1	0.96		
	Plinth								
	L/w		3	11.6	0.2	0.45	3.13		
			1	6	0.2	0.45	0.54		
	S/w		2	8.45	0.2	0.45	1.52		
			1	4.25	0.2	0.45	0.38		
	Toilet wall		6	1.3	0.2	0.45	0.70		
			1	1.5	0.2	0.45	0.14		
			1	1.2	0.2	0.45	0.11		
	Sump Roof		1	3.2	3	0.15	1.44		
	Lintel		3	11.6	0.2	0.15	1.04		
			1	6	0.2	0.15	0.18		
			2	8.45	0.2	0.15	0.51		
			1	4.25	0.2	0.15	0.13		
			6	1.3	0.2	0.15	0.23		
			1	1.5	0.2	0.15	0.05		
			1	1.2	0.2	0.15	0.04		
	Roof		1	11.6	5.7	0.15	9.92		
			1	2.6	7.8	0.15	3.04		
	Beam		3	8.25	0.2	0.3	1.49		
			2	5.7	0.2	0.3	0.68		
			2	11.36	0.2	0.3	1.36		
			1	6.25	0.2	0.3	0.38		
	Column Footing	Cum	8	1.80	1.50	0.75	16.20		
	Column fedastal up to plinth		8	0.80	0.30	1.20	2.30		
	Plinth L / Wall		2	15.90	0.20	0.45	2.86		
	S/ wall		4	6.10	0.20	0.45	2.20		
	At str		1	2.30	0.20	0.45	0.21		
	column up to Beam bottom		8	0.60	0.20	3.10	2.98		
	Beam		3	13.60	0.20	0.30	2.45		
			4	5.70	0.20	0.30	1.37		
			1	2.30	0.20	0.30	0.14		
			4	1.50	0.20	0.30	0.36		
	Roof		1	7.60	13.60	0.15	15.50		
			1	3.70	2.30	0.15	1.28		
	Staircase landing		1	1.15	2.30	0.15	0.40		
	beam		1	2.30	0.23	0.20	0.11		
	waist slab		1	3.20	1.05	0.15	0.50		
			1	3.30	1.05	0.15	0.52		
	Steps (22x.5)		11	1.05	0.15	0.25	0.43		
					Net Qty		103.99	7,600.00	790340.15
8	KSRB 4.2.10 : **Providing and laying in position reinforced cement concrete of design mix M20** with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175cum and fine aggregtes @ 0.0345cum, with superplastisiser @0.225lts, machine mixed, well compacted for **plain chajja of 7.5 cms. average thickness**, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 page No. 13, Item No. 4.19, PWD SR 2016-17								
	in side Chajja		1	6.1	0.6		3.66		
			1	1.4	0.6		0.84		
			1	2.6	0.6		1.56		
			1	4.4	0.6		2.64		
			1	0.6	0.6		0.36		
	Chajja	Sqm	1	9.00	0.60		5.40		
					Net Qty		14.46		
	Rate Analysis For Above 125% Quantity								
	Basic Rate		440.00						
	Area Weightage@8%		35.20						
	11.50% Above on SR		54.68						
	Total		529.88						
					Upto 125% Quantity		14.18	550.00	7799.00

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					Above 125% Quantity		0.29	529.88	153.67
9	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17								
		Tonne							
	column rod 20mm	(8*8)	64	6.75		432			
						w@2.47	1067.04		
	Footing Matt 12mm	8*22	176	2.15		378.4			
		8*19	152	2.45		372.4			
						750.8			
						w @0.89	668.212		
	Stirups	8*2*34	544	1.2		652.8			
						w@0.39	254.592		
	L/w	16 mm	3	8	11.6	278.4			
			1	8	6	48			
			2	8	8.45	135.2			
			1	8	4.25	34			
			6	8	1.7	81.6			
						577.2			
						w @ 1.57			
						Kg	906.204		
	8 mm Strps		454	1.2		544.8			
						w @ 0.39	212.472		
	Sump 10mm		33	3		99			
			31	3.2		99.2			
						198.2			
						w @0.62	122.884		
	Lintel 10mm		3	4	11.6	139.2			
			1	4	6	24			
			2	4	8.45	67.6			
			1	4	4.25	17			
			6	4	1.7	40.8			
						288.6			
						w @.62	178.932		
	Steel for chajja 10 mm		7	6.1		42.7			
			61	0.8		48.8			
			7	1.4		9.8			
			14	0.8		11.2			
			7	2.6		18.2			
			26	0.8		20.8			
			7	4.4		30.8			
			44	0.8		35.2			
			7	0.6		4.2			
			6	0.8		4.8			
						226.5			
						w@ 0.62	140.43		
	lintel 8 mm Strps		454	0.6		272.4			
						w @.39	106.236		
	steel roof beam								
	Beam 20mm		2	4	11.6	92.8			
			1	4	7.8	31.2			
			3	4	8.25	99			
			2	4	5.7	45.6			
						268.6			
						W @2.47	663.442		
	Beam 16 mm		2	4	11.6	92.8			
			1	4	7.8	31.2			
			3	4	8.25	99			
			2	4	5.7	45.6			
						268.6			
						w @1.57	421.702		
	Steel for roof								
	10mm		57	11.6		661.2			
			27	7.8		210.6			
	roof Extra bar		2	83	1.5	249			
			2	57	1.5	171			
						1291.8			
						w @.62	800.916		
	8mm distr		65	8.3		539.5			
			31	3.8		117.8			
						657.3			
						w@.39	256.347		
	Column 16 mm, 1.57 Kg /mt	ton	8	8	7.30	467.20	733.50		
	8 mm strp 0.39kg/mt		8	35	1.40	392.00	152.88		

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			8	35	0.75	210	**81.90**		
	Plinth 16 mm 1.57 kg/mt		2	8	15.90	254.4	**399.41**		
	Plinth 16 mm		4	8	6.10	195.2	**306.46**		
	Plinth 16 mm		2	8	2.30	36.8	**57.78**		
	8 mm Strps for plinth		1	405	1.25	506.25	197.44		
	Beam 16 mm		3	8	13.60	326.4	**512.45**		
	Beam		4	8	5.70	182.4	**286.37**		
	Beam		1	8	2.30	18.4	**28.89**		
	Beam		4	8	1.50	48	**75.36**		
	8 mm Strps for Beam		1	405	1.25	506.25	**197.44**		
	Roof 10 mm		1	136	7.60	1033.6	**640.83**		
	Roof 10mm		1	23	3.70	85.1	**52.76**		
	Roof disrt 8 mm		1	61	13.60	829.6	323.54		
	Roof disrt 8 mm		1	37	2.30	85.1	33.19		
	Staircase 12 mm		1	10	4.40	44	39.16		
	Staircase 12 mm		1	10	4.30	43	38.27		
	Landing 10 mm		2	30	4.40	264	163.68		
			1	10	2.30	23	14.26		
					Net Qty		10204.98		
							10.20	**Tonnes**	
	Rate Analysis For Above 125% Quantity								
	Basic Rate	70966.00							
	Area Weightage@8%	5677.28							
	11.50% Above on SR	8813.97							
	Total	**85457.25**							
					Upto 125% Quantity		**8.09**	**62000.00**	**501580.00**
					Above 125% Quantity		**2.11**	**85457.25**	**180314.80**
10	**Providing and removing centering shuttering** strutting propping etc., and removal of form work for **columns,** pillars, abutments, post and struts square/ rectangular/ polygon in plan including cost of all materials labour complete as per specification Page No. 16 / Item No. 4.32, PWD SR 2016-17								
		Sqm							
	Footing		8	7.5		0.75	45.00		
	For Pedastal up to G L		8	2.8		1.5	33.60		
	For Column up to Plinth		8	1.6		0.45	5.76		
	Column footing	Sqm	8	6.60	0.75		39.60		
			8	2.20	1.20		21.12		
					Net Qty		**145.08**		
	Rate Analysis For Above 125% Quantity								
	Basic Rate	456.00							
	Area Weightage@8%	36.48							
	11.50% Above on SR	56.63							
	Total	**549.11**							
					Upto 125% Quantity		**118.30**	**425.00**	**50277.50**
					Above 125% Quantity		**26.78**	**549.11**	**14705.17**
11	**Providing and removing centering shuttering** strutting propping etc., and removal of form work for sides and soffits of **beams beam houchings** cantilever girders bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specification Page No. 16 / Item No. 4.34, PWD SR 2016-17								
	Column		8	1.6		3.1	39.68		
	Plinth		6	11.6		0.45	31.32		
			2	6.1		0.45	5.49		
			4	8.25		0.45	14.85		
			12	1.3		0.45	7.02		
	Lintel		6	11.6		0.15	10.44		
			2	6.1		0.15	1.83		
			4	8.25		0.15	4.95		
			2	4.25		0.15	1.275		
			12	1.3		0.15	2.34		
	Beam		4	11.6		0.3	13.92		
			2	7.8		0.3	4.68		
			6	8.25		0.3	14.85		
			4	5.75		0.3	6.9		
	Plinth L / Wall	**Sqm**	4	15.90	0.45		28.62		
	Plinth S/ Wall		8	6.10	0.45		21.96		
	Plinth S/ Wall		2	2.30	0.45		2.07		
	column up to Beam bottom		8	1.60	3.10		39.68		
	Beam		6	13.60	0.30		24.48		

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	Beam		8	5.70	0.30		13.68		
	Beam		2	2.30	0.30		1.38		
	Beam		8	1.50	0.30		3.60		
	Roof		1	7.60	13.60		103.36		
	Roof		1	3.70	2.30		8.51		
	Landing		1	2.30	1.00		2.30		
	Waist slab bottom		1	3.20	1.45		4.64		
	Waist slab bottom		1	3.30	1.45		4.79		
	Steps		22	1.05	0.15		3.47		
					Net Qty		422.08		
	Rate Analysis For Above 125% Quantity								
	Basic Rate		292.00						
	Area Weightage@8%		23.36						
	11.50% Above on SR		36.26						
	Total		351.62						
					Upto 125% Quantity		197.56	300.00	59268.00
					Above 125% Quantity		224.51	351.62	78942.21
12	**Providing and removing centering shuttering** strutting propping etc., for **chejjas**, corbels etc., including edges including cost of all materials, labour complete as per specifications **Page No. 16 / Item No. 4.37, PWD SR 2016-17**								
			1	6.1	0.6		3.66		
			1	1.4	0.6		0.84		
		Sqm	1	2.6	0.6		1.56		
			1	4.4	0.6		2.64		
			1	0.6	0.6		0.36		
					Net Qty		9.06	320.00	2899.20
13	**Providing and removing centering, shuttering**, strutting, propping etc., and removal of form work for flat surface such as suspended floors, **roofs,**landing, balconies and likes thickness upto 200mm including cost of materials, labour complete as per specification **Page No. 15 / Item No. 4.29, PWD SR 2016-17**								
	Roof		1	5.75		11.6	66.7		
			1	2.6		7.8	20.28		
	Roof Side		2	11.6		0.15	3.48		
			2	8.25		0.15	2.475		
	Column	Sqm	8	1.6		3.1	39.68		
	Sump		1	2.8		2.6	7.28		
	Sump side		2	3.2		0.15	0.96		
			2	3		0.15	0.9		
							141.76	625.00	88596.88
14	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/rrim2 confirming to JS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 \ including cost of ail materials labour charges, scaffolding, curing, hirecharges of machineries etc., complete as per specifications. KBS No.54 **Page No. 25 / Item No. 5.27.2, PWD SR 2016-17 400x200x200mm**								
	Sump		2	3.2		2.3	14.72		
		Sqm	2	2.6		2.3	11.96		
							26.68	1,000.00	26,680.00
15	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/rrim2 confirming to JS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 \ including cost of ail materials labour charges, scaffolding, curing, hirecharges of machineries etc., complete as per specifications. KBS No.54 **Page No. 25 / Item No. 5.27.2, PWD SR 2016-17400x150x200mm**								
	L/wall		5	4.9		3.1	75.95		
	S/wall		5	3.8		3.1	58.9		
	Toilet wall		1	5.7		3.4	19.38		
	Toilet wall		1	5.3		3.4	18.02		
	Toilet wall partition		6	1.3		2.5	19.5		
	Deduction						0		
	Lintle		-5	4.9		0.15	-3.675		
		Sqm	-5	3.8		0.15	-2.85		
	Ventilator		-3	4.9		0.15	-2.205		
			-2	3.8		0.15	-1.14		
	Door		-2	1.05		2.1	-4.41		
	Parapet		2	11.6		1	23.2		
			2	8.25		1	16.5		
	wall	Sqm	4	4.3	1.6		27.52		
			1	4.85	3.1		15.04		
			1	4.3	3.1		13.33		
			2	1.2	1.6		3.84		
			1	3.35	3.1		10.39		
	above the Landing		1	2.3	1.5		3.45		

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	below the Landing		1	2.3	1.2		2.76		
			1	15.9	0.9		14.31		
					Net Qty		307.8	1,000.00	307800.00
16	**Providing Honne wood frames of doors, windows**, clerestory windows, ventilators and other frames wrought, framed of assembled including making plaster grooves (excluding cost of materials, labour, HOM of machineries complete as per specifications (P. No. 51/ I. No. 9.11 of PWD SR 2016-17)								
			6	1.2	0.125	0.075	0.07		
			6	2.1	0.125	0.075	0.12		
		Cum	8	1.05	0.125	0.075	0.08		
			16	2.1	0.125	0.075	0.32		
							0.58	130,000.00	75318.75
17	**Providing and fixing in position fully panelled Honne wood shutters for doors**, styles and rails of 40mm, thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour,HOM of machineries completed as per specification (excluding cost of fixtures)Page No. 50, Item No. 9.15, PWD SR 2016-17								
		Sqm	3	0.9	1.95		5.27	5500.00	28957.50
18	**Providing and fixing M.S. grill work for windows and ventilator** weighing 21kg/Sqm using M.S. flats, or M.S square rods or combination of M.S. flats and steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures labour and HOM of machinery specifications(P.No. 32, I.No. 7.9 of PWD SR 2016-17)								
		Kg	7	1.8	0.6		7.56		
			4	4.3	1.8		30.96		
			1	4.3	1.3		5.59		
			1	1.5	1.3		1.95		
							46.06		
	Consider 21 kg per one sqm			21	x	46.06	967.26		0.00
	Rate Analysis For Above 125% Quantity								
	Basic Rate		95.00						
	Area Weightage@8%		7.60						
	11.50% Above on SR		11.80						
	Total		114.40						
					Upto 125% Quantity		519.75	95.00	49376.25
					Above 125% Quantity		447.51	114.40	51194.70
19	Providing and fixing in position collapsible steel shutters Sqm with single or double leaf with vertical channel 20mmx10mmx2mm braced with flat iron diagonals 20mmx5mm size, with top and bottom rails of T iron sections of 40x40x6 mm with 38mm dia steel pulleys complete with bolt and nuts, locking arrangements, stoppers, handles on both sides with 7.5cms openings at 10 cms. c to c applying a priming coat of red lead paint, cost of materials, labour, HOM of machinery complete as per specifications, size of gate 2.4mx1.4m Specification No. KBS 7.7 / 7.12 Page No. 30, Item No. 7.1, PWD SR 2016-17								
		Sqm	1	4.3	2.2		9.46		
			1	1.5	2.4		3.60		
							13.06	9000.00	117540.00
21	**Providing 18mm thick cement plaster in single coat with cement mortar 1:3**, to brick masonry including rounding off corners wherever required smooth rendering: providing and removing scaffolding, including cost of materials labour curing complete as per specifications(P.No. 112, I.No. 15.15 of PWD SR 2015-16)								
	Sump wall		2	3.2		2.3	14.72		
			2	2.6		2.3	11.96		
	Ceiling		1	2.8		2.6	7.28		
	Bottom		1	2.8		2.6	7.28		
	internal plastring								
	Store	Sqm	1	3.75		3.30	12.38		
	Wall		1	4.00		3.30	13.20		
	Wall		1	1.25		3.30	4.13		
	Wall		1	1.65		3.30	5.45		
	Wall		1	5.65		3.30	18.65		
	Wall		1	2.50		3.30	8.25		
	Toilet 1		2	5.25		3.30	34.65		
			2	3.80		3.30	25.08		
			2	5.25		2.40	25.20		

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			6	1.20		2.40	17.28		
	Toilet 2		2	5.65		3.35	37.86		
			2	3.80		3.35	25.46		
			2	5.65		2.40	27.12		
	Kitchen		2	5.80		3.40	39.44		
			1	4.30		3.40	14.62		
	Selves		1	1.45		3.10	4.50		
			4	1.20		1.80	8.64		
			4	4.30		3.40	58.48		
	Column		5	1.15		3.10	17.83		
	Beam side		12	1.50		0.30	5.40		
			2	2.30		0.30	1.38		
	k beam side		12	4.30		0.30	15.48		
			4	4.90		0.30	5.88		
			2	3.75		0.30	2.25		
	Toilet 1 beam		1	1.00		0.30	0.30		
			2	3.80		0.30	2.28		
			2	3.80		0.30	2.28		
	Didection		-0.5	1.80		0.60	-0.54		
	D		-0.5	1.05		2.10	-1.10		
	V		-3	1.80		0.60	-3.24		
	D1		-8	0.90		2.10	-15.12		
	D		-1	1.05		2.10	-2.21		
	Open		-1	1.50		3.10	-4.65		
			-4	4.30		1.50	-25.80		
							422.02	**300.00**	**126605.25**
22	**Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling** incluidng rounding off corners wherever required smooth rendering providing and removing scaffolding including cost of materials, labour curing complete as per specification . **Page No. 114, Item No. 15.21 of PWD SR 2016-17**								
	Passage	Sqm	1	5.60	1.50		8.40		
			1	2.50	1.50		3.75		
	Staircase		1	3.60	2.30		8.28		
			1	13.60	7.60		103.36		
	Store		1	3.75	4.00		15.00		
			1	1.60	2.50		4.00		
	Chajja		2	4.00	0.60		4.80		
			2	1.25	0.60		1.50		
			2	1.10	0.60		1.32		
			2	2.50	0.60		3.00		
			2	5.10	0.60		6.12		
	Toilet 1		1	1.45	1.30		1.89		
			1	5.25	3.80		19.95		
	Tiolet 2		1	5.65	3.80		21.47		
							202.84		
	Rate Analysis For Above 125% Quantity								
	Basic Rate		235.00						
	Area Weightage@8%		18.80						
	11.50% Above on SR		29.19						
	Total		**282.99**						
						Upto 125% Quantity	**103.40**	**225.00**	**23265.00**
						Above 125% Quantity	**99.44**	**282.99**	**28138.81**
23	**Providing lime rendering for plastering** to wall and ceiling, including cost of materials, labour, curing complete as per specifications **Page No. 115, Item No. 15.33, PWD SR 2016-17**								
	wide qty Item No21 and 22				422.02	202.84	**624.85**		
	Rate Analysis For Above 125% Quantity								
	Basic Rate		32.00						
	Area Weightage@8%		2.56						
	11.50% Above on SR		3.97						
	Total		**38.53**						
						Upto 125% Quantity	**103.40**	**30.00**	**3102.00**
						Above 125% Quantity	**521.45**	**38.53**	**20093.86**

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24	**Providing 20mm thick cement plaster in single coat** with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering.: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications **(Page No116, Item No.15.18) PWD SR 2018-19**								
	External plastring	**Sqm**							
	Toilet west side		1	11.65		5.10	59.42		
			1	11.35		1.05	11.92		
			1	4.25		5.10	21.68		
			1	4.25		5.10	21.68		
			1	1.50		2.40	3.60		
			1	3.90		2.40	9.36		
			1	2.50		2.40	6.00		
			1	5.90		1.05	6.20		
			1	8.30		5.10	42.33		
			1	8.00		1.05	8.40		
			1	1.10		0.95	1.05		
			1	6.10		5.10	31.11		
			1	5.95		1.05	6.25		
			1	6.10		4.00	24.40		
			1	1.50		0.45	0.68		
			1	4.00		4.10	16.40		
			1	15.60		4.10	63.96		
			2	9.00		0.60	10.80		
			1	9.15		3.85	35.23		
			1	4.20		1.20	5.04		
			1	3.80		1.20	4.56		
			2	2.30		1.70	7.82		
			2	2.30		1.20	5.52		
			1	4.00		3.80	15.20		
			1	5.60		3.80	21.28		
	Deduction	v.5x7	-3.5	1.80		0.60	-3.78		
			-1.5	1.05		2.10	-3.31		
			-2	4.30		1.50	-12.90		
							419.87	**300.00**	**125959.5**
25	Providing and laying flooring using **prepolished, water cut/gang saw 19mm thick granite** laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - **using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 1200mm (P.No.107, I.No.14.47.1 of PWD SR 2016-17)**								
	Store	**Sqm**	1	3.75	4.00		15.00		
			1	1.60	2.50		4.00		
	Toilet 1		1	5.25	2.40		12.60		

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			4	0.90	0.10		0.36		
			1	1.00	1.30		1.30		
			1	0.50	1.00		0.50		
	Toilet 2		1	5.25	2.45		12.86		
			5	0.90	0.10		0.45		
			1	5.60	1.70		9.52		
			1	0.50	5.60		2.80		
							59.39	3000.00	178177.50
26	KSRB 11-5 : Providing and fixing white vitreous china clay, **water closet European type (Pedestal type, P-trap) with black solid plastic seat** and lid, C.P brass hinges, rubber buffers, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 **(P 79 It 12.5) PWD SR 2016-17**								
							3.00	5600.00	16800.00
27	Providing and fixing white vitreous china clay flat back **wash basin size 630x450mm with a** single of 15mm C.P. brass pillar taps with C.I. /M.S. brackets 32mm C.P. brass waste of standard pattern, painting of fittings and brackets, cuttings and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications **(P.No. 81, I.No. 12.24 of PWD SR 2015-16)**								
							7.00	3500.00	24500.00
28	KSRB 14-17.2 : Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x45 cms 6mm thick with border of size 30 x 10 cms.(Page No. 108, Item No. 14.41.3) PWD SR 2018-19								
	toilet	Sqm	4	1.15	1.3		5.98		
			4	1.25	1.3		6.5		
							12.48	1250.00	15600.00
29	Providing and fixing colour glazed tiles of size 300mmx600mm for walls with borders of size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with matching colour pigment with necessary curing, cleaning including providing and removing scaffolding wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for equipment, etc., complete as per specification. (P 112 It 14.64) PWD SR 2016-17								
	Store								
	wall	Sqm	1	3.75		2.05	7.69		
			1	4		2.05	8.20		
			1	1.25		2.05	2.56		
			1	1.6		2.05	3.28		
			1	2.5		2.05	5.13		
			1	5.6		2.05	11.48		
			4	0.6		1.25	3.00		
	Toilet 1	wall	2	5.25		2.4	25.20		
			2	3.8		2.4	18.24		
			6	1.25		2.4	18.00		
			3	0.3		2.4	2.16		
			1	1.3		2.4	3.12		
			2	0.5		2.4	2.40		
			1	1		0.4	0.40		
			1	5.3		2.4	12.72		
	Deduction								
	D1		-4	0.9		2.1	-7.56		
			-4	0.9		2.1	-7.56		
							108.46	1350.00	146414.25
30	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia. (P.No. 88, I.No. 12.111 of PWD SR 2016-17)								
							18	200	3600.00

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31	KSRRB M200-14.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications, ii) Dismantling Brick I Tile work. A. In lime mortar. per specifications, ii) Dismantling Brick I Tile work. A. In lime mortar. 18.23								
	Brick parapet wall	Cum	2	4.80	0.90	0.30	2.59		
	Brick parapet wall		2	4.50	0.90	0.23	1.86		
	Wall		3	5.00	3.10	0.23	10.70		
			2	8.85	3.10	0.23	12.62		
	R C C Roof		1	6.00	8.80	0.15	7.92		
	Chajj		5	1.20	0.08	0.60	0.27		
	Deduction								
	Door		-2	0.90	0.23	2.10	-0.87		
	351+8%		-3	0.90	0.23	1.20	-0.75		
							34.35	298.64	10256.94
	Rate Analysis								
	Basic Rate		248.00						
	Area Weightage@8%		19.84						
	11.50% Above on SR		30.80						
	Total		298.64						
							6.00	298.64	1791.84
								Total Rs	4,649,496.25

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2016-17
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.

Asst Engineer
Ward No-13

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

EXECUTIVE ENGINEER
Bruhat Bangalore Mahanagara Palike,
Dasarahalli Division, Bangalore-57.

ನಂ: CE/DZ/TS/29/18-19 ದಿನಾಂಕ : 06/06/2019
ರೂ. 46.49 49/-
Forty Six Lakhs Forty Nine thousand Four hundred Ninety Six only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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